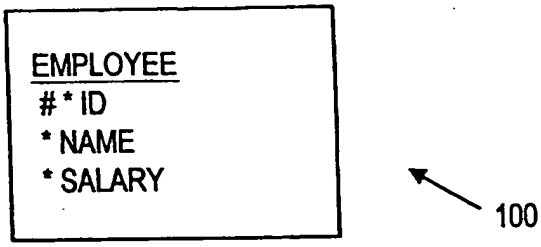


(PRIOR ART)
Fig. 1

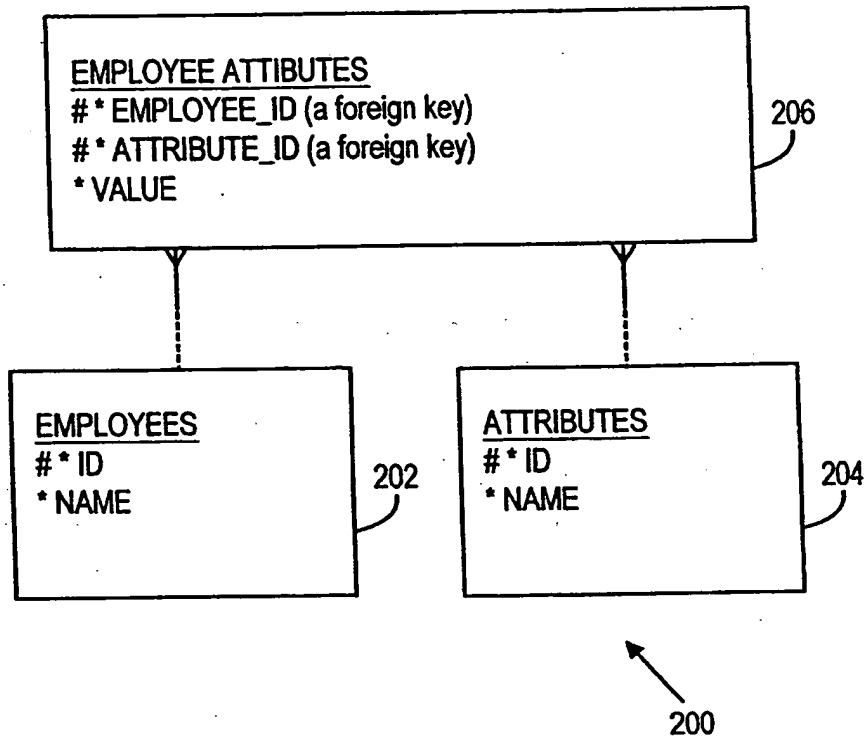


Fig. 2a

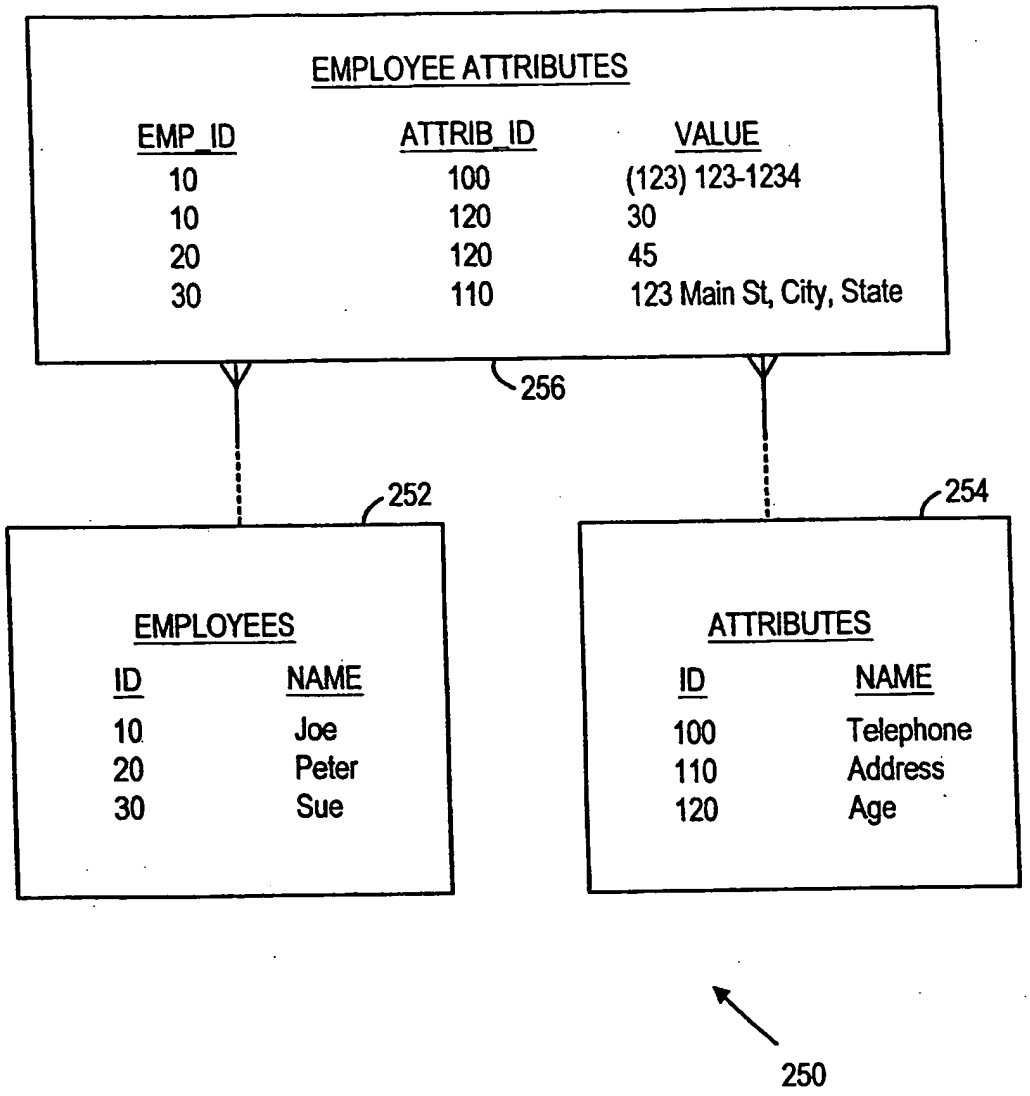

EMPLOYEE ATTRIBUTES
EMP_ID
ATTRIB_ID
VALUE
10
100
(123) 123-1234
10
120
30
20
120
45
30
110
123 Main St, City, State
256
252
254
EMPLOYEES
ID
NAME
10
Joe
20
Peter
30
Sue
ATTRIBUTES
ID
NAME
100
Telephone
110
Address
120
Age
250

Fig 2b

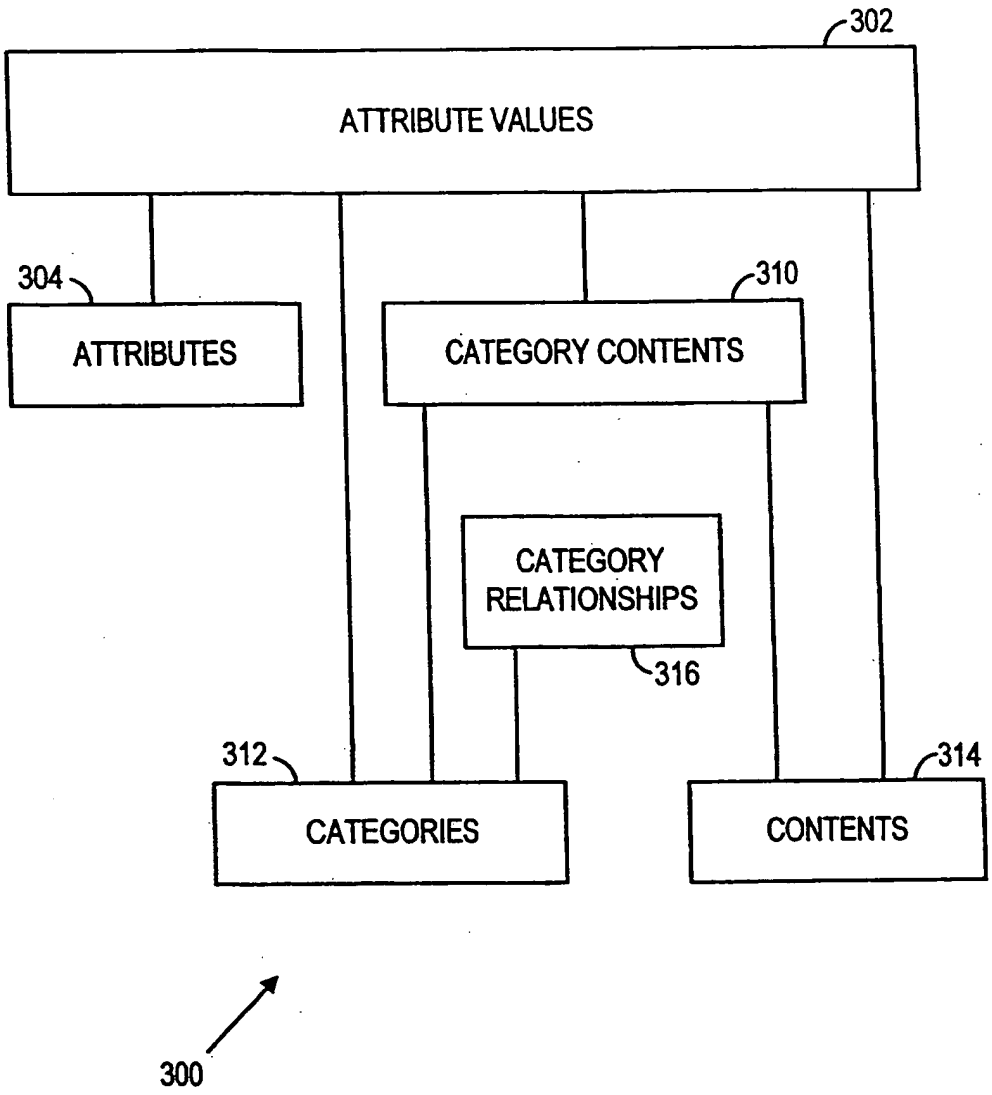

302
ATTRIBUTE VALUES
304
ATTRIBUTES
310
CATEGORY CONTENTS
CATEGORY RELATIONSHIPS
316
312
CATEGORIES
314
CONTENTS
300

Fig 3a

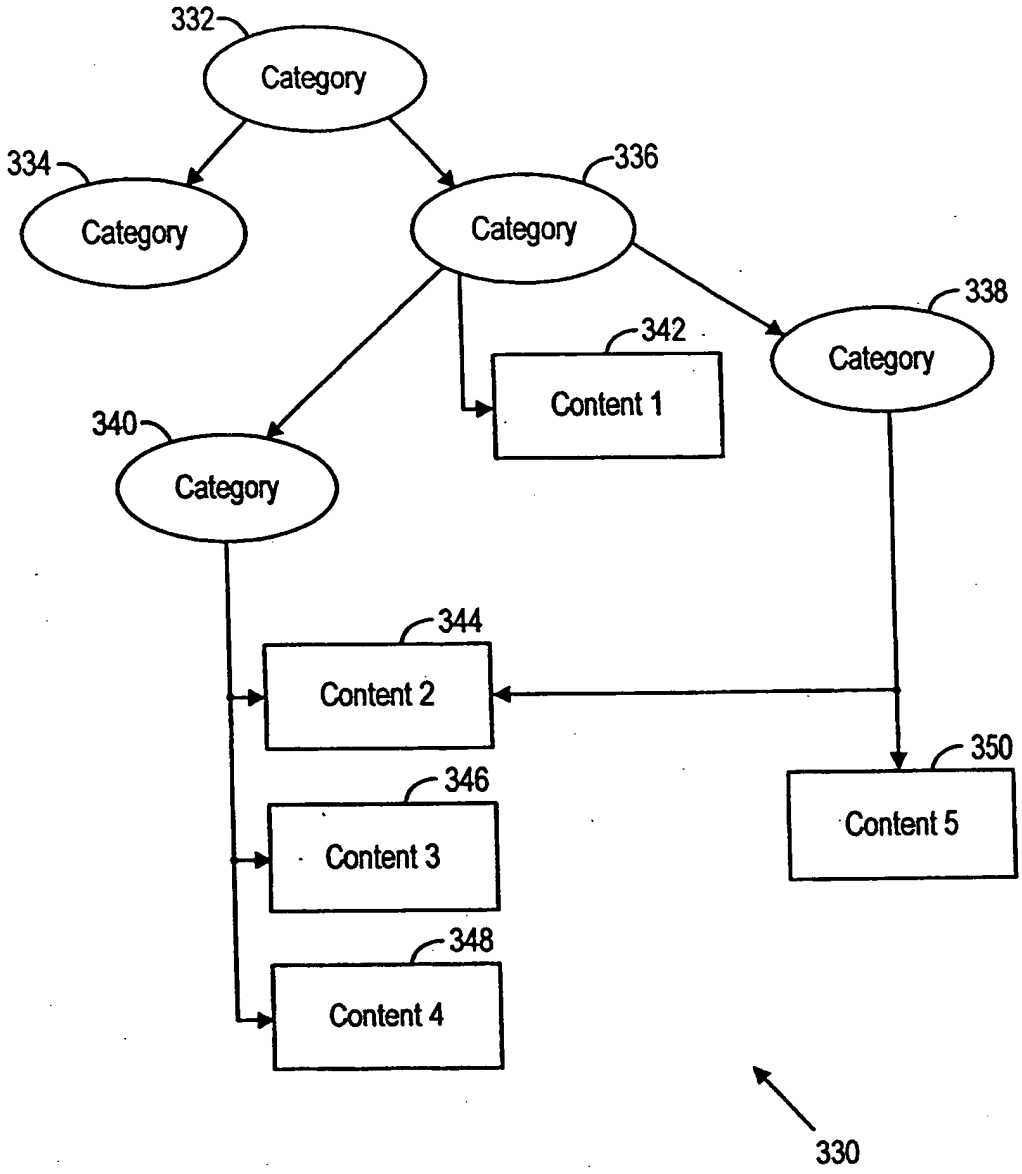

332
Category
334
Category
336
Category
338
Category
342
Content 1
340
Category
344
Content 2
346
Content 3
348
Content 4
350
Content 5
330

Fig 3b

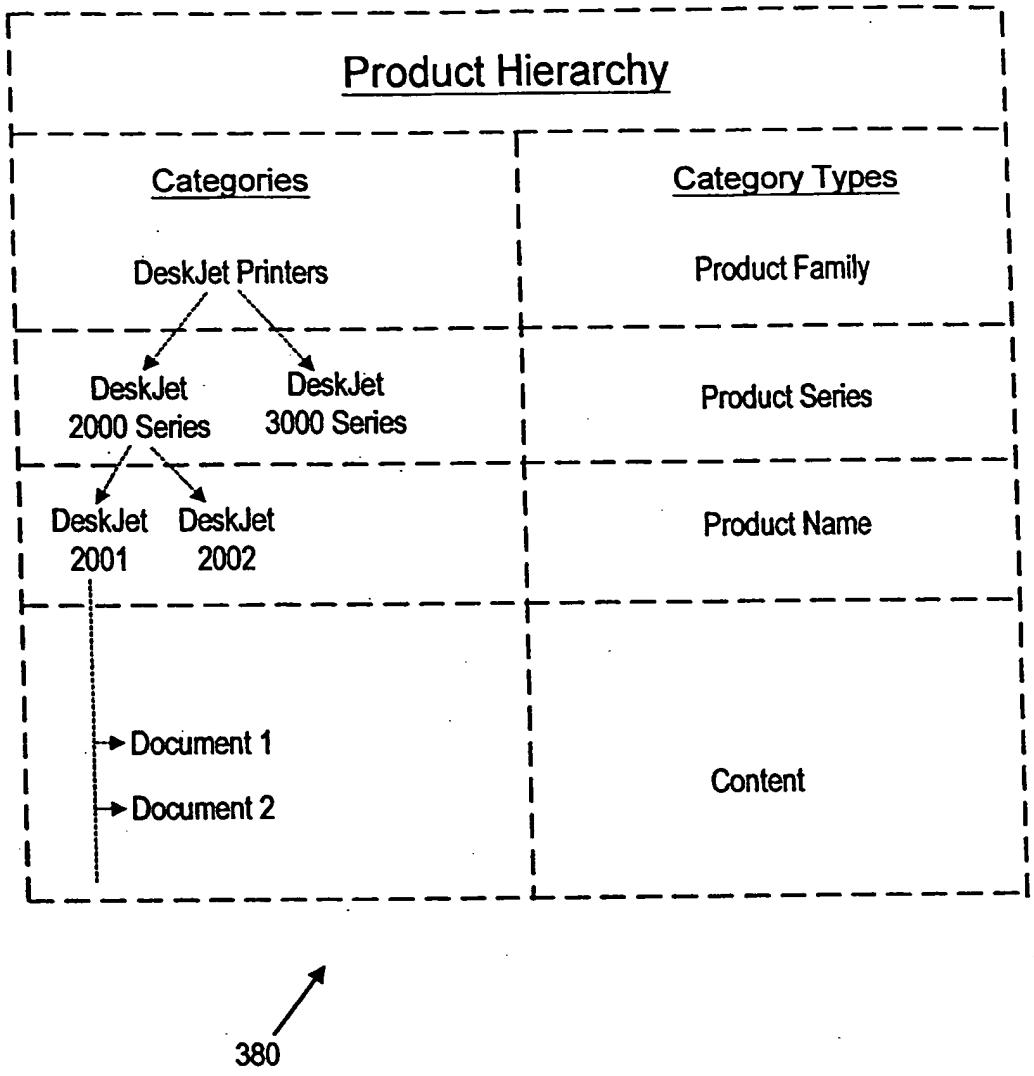
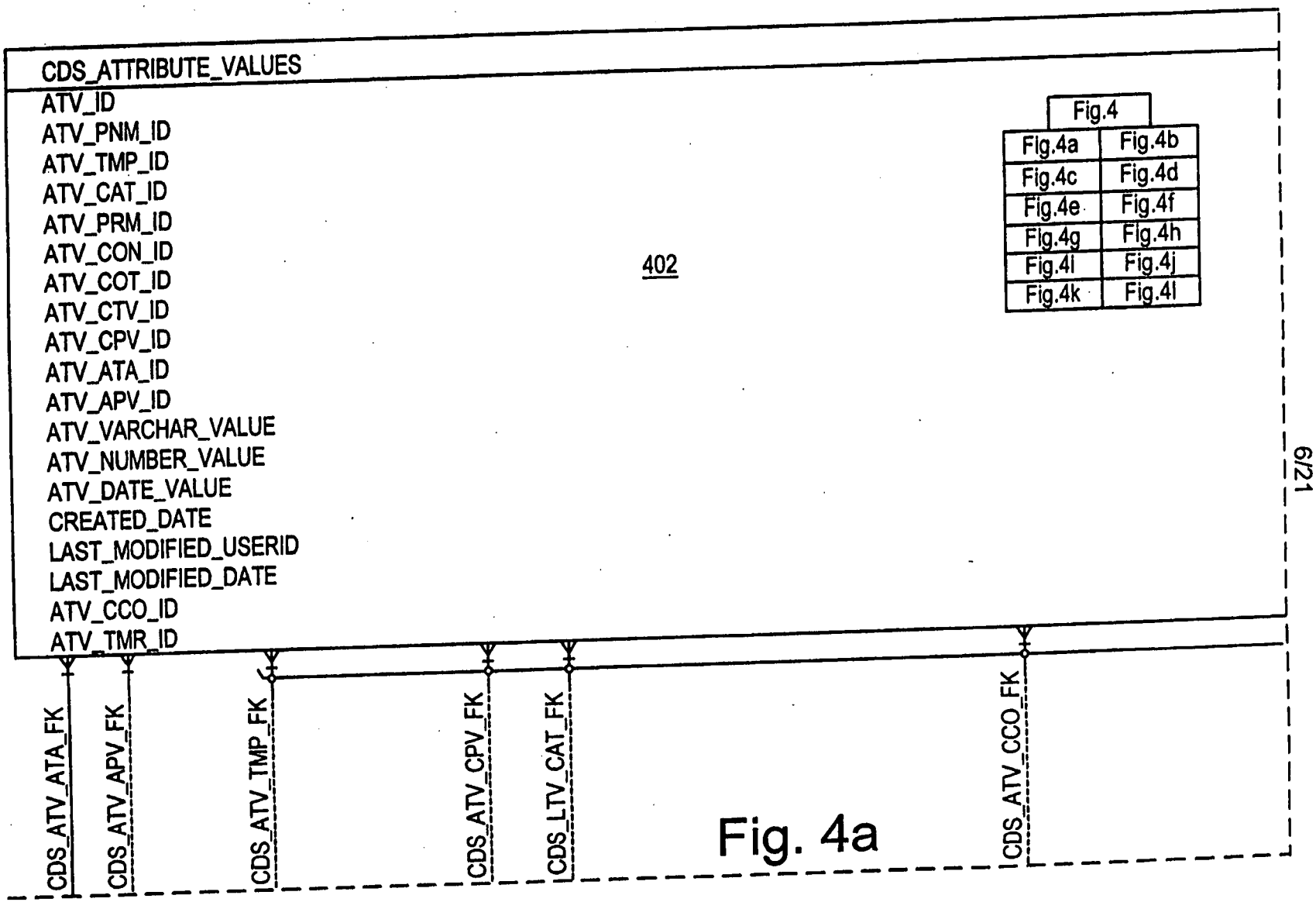

Product Hierarchy
Categories
Category Types
DeskJet Printers
Product Family
DeskJet
2000 Series
DeskJet
3000 Series
Product Series
DeskJet
2001
DeskJet
2002
Product Name
Document 1
Document 2
Content
380

Fig. 3c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ATV_ID
ATV_PNM_ID
ATV_TMP_ID
ATV_CAT_ID
ATV_PRM_ID
ATV_CON_ID
ATV_COT_ID
ATV_CTV_ID
ATV_CPV_ID
ATV_ATA_ID
ATV_APV_ID
ATV_VARCHAR_VALUE
ATV_NUMBER_VALUE
ATV_DATE_VALUE
CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
ATV_CCO_ID
ATV_TMR_ID
402
Fig.4
Fig.4a
Fig.4b
Fig.4c
Fig.4d
Fig.4e
Fig.4f
Fig.4g
Fig.4h
Fig.4i
Fig.4j
Fig.4k
Fig.4l
CDS_ATV_ATA_FK
CDS_ATV_APV_FK
CDS_ATV_TMP_FK
CDS_ATV_CPV_FK
CDS_LTV_CAT_FK
CDS_ATV_CCO_FK

Fig. 4a

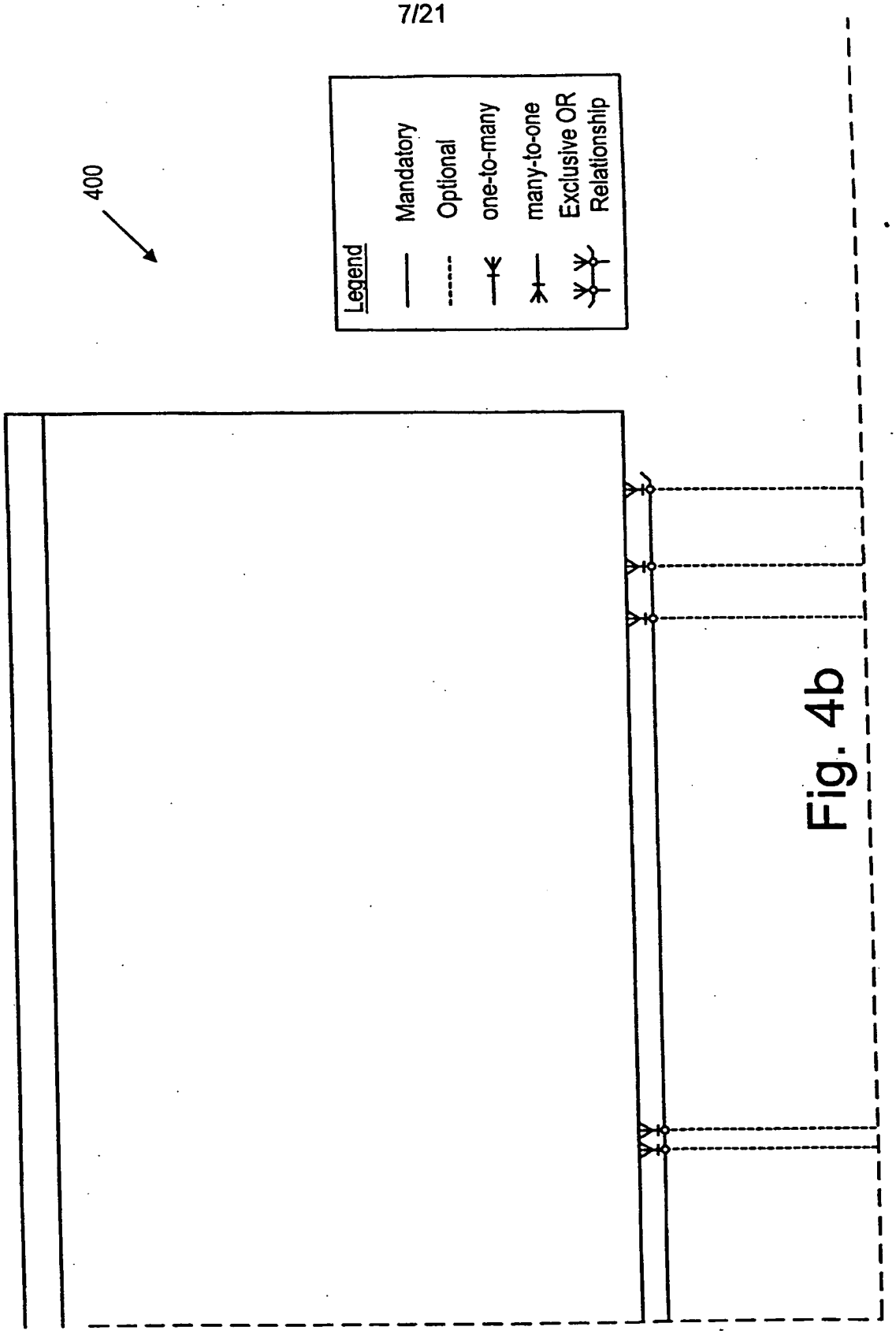
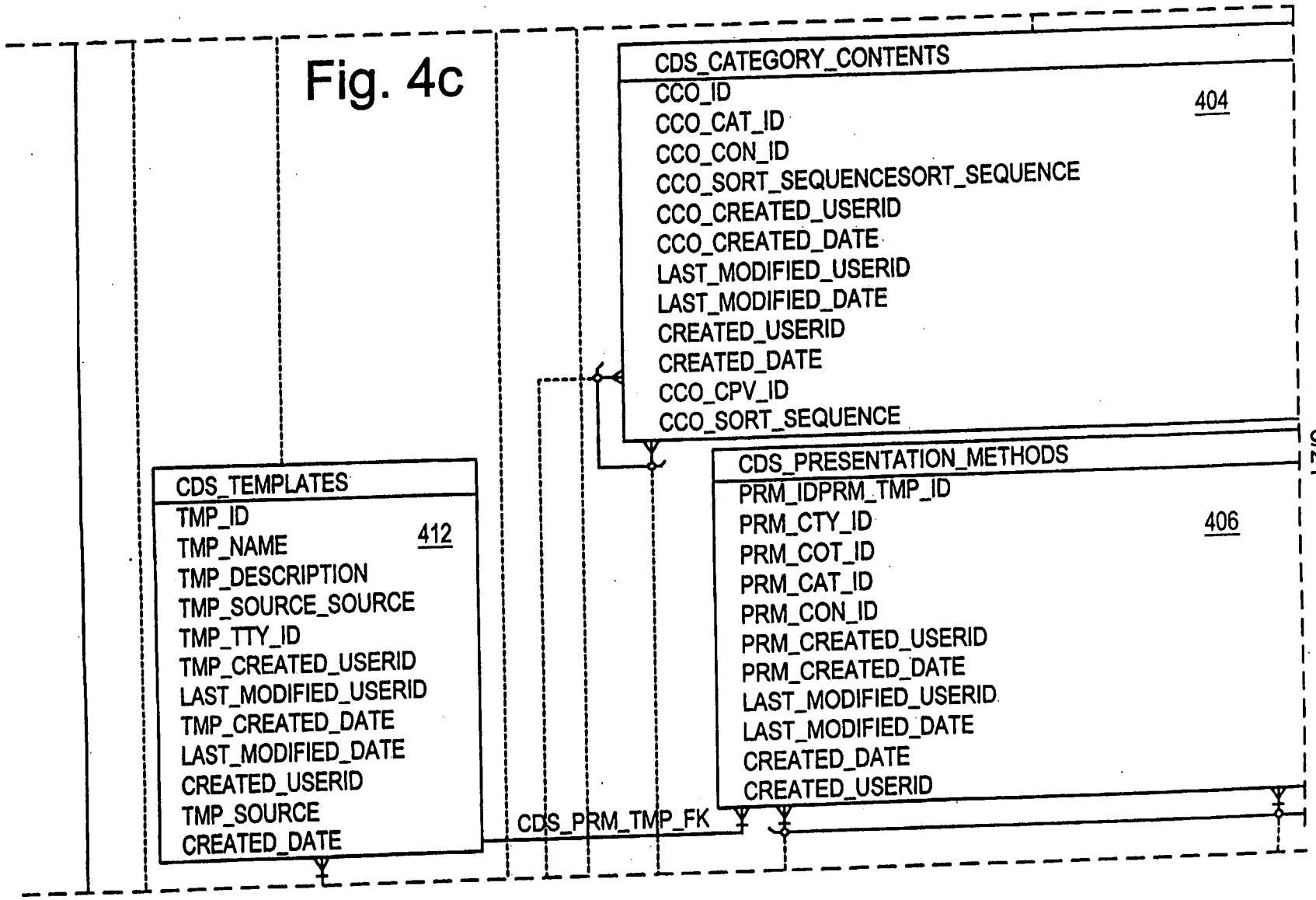

400
Legend
Mandatory
Optional
one-to-many
many-to-one
Exclusive OR Relationship

Fig. 4b

Fig. 4c


CDS_CATEGORY_CONTENTS
CCO_ID
CCO_CAT_ID
CCO_CON_ID
CCO_SORT_SEQUENCESORT_SEQUENCE
CCO_CREATED_USERID
CCO_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CCO_CPV_ID
CCO_SORT_SEQUENCE
404
CDS_PRESENTATION_METHODS
PRM_IDPRM_TMP_ID
PRM_CTY_ID
PRM_COT_ID
PRM_CAT_ID
PRM_CON_ID
PRM_CREATED_USERID
PRM_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_DATE
CREATED_USERID
406
CDS_TEMPLATES
TMP_ID
TMP_NAME
TMP_DESCRIPTION
TMP_SOURCE_SOURCE
TMP_TTY_ID
TMP_CREATED_USERID
LAST_MODIFIED_USERID
TMP_CREATED_DATE
LAST_MODIFIED_DATE
CREATED_USERID
TMP_SOURCE
CREATED_DATE
412
CDS_PRM_TMP_FK

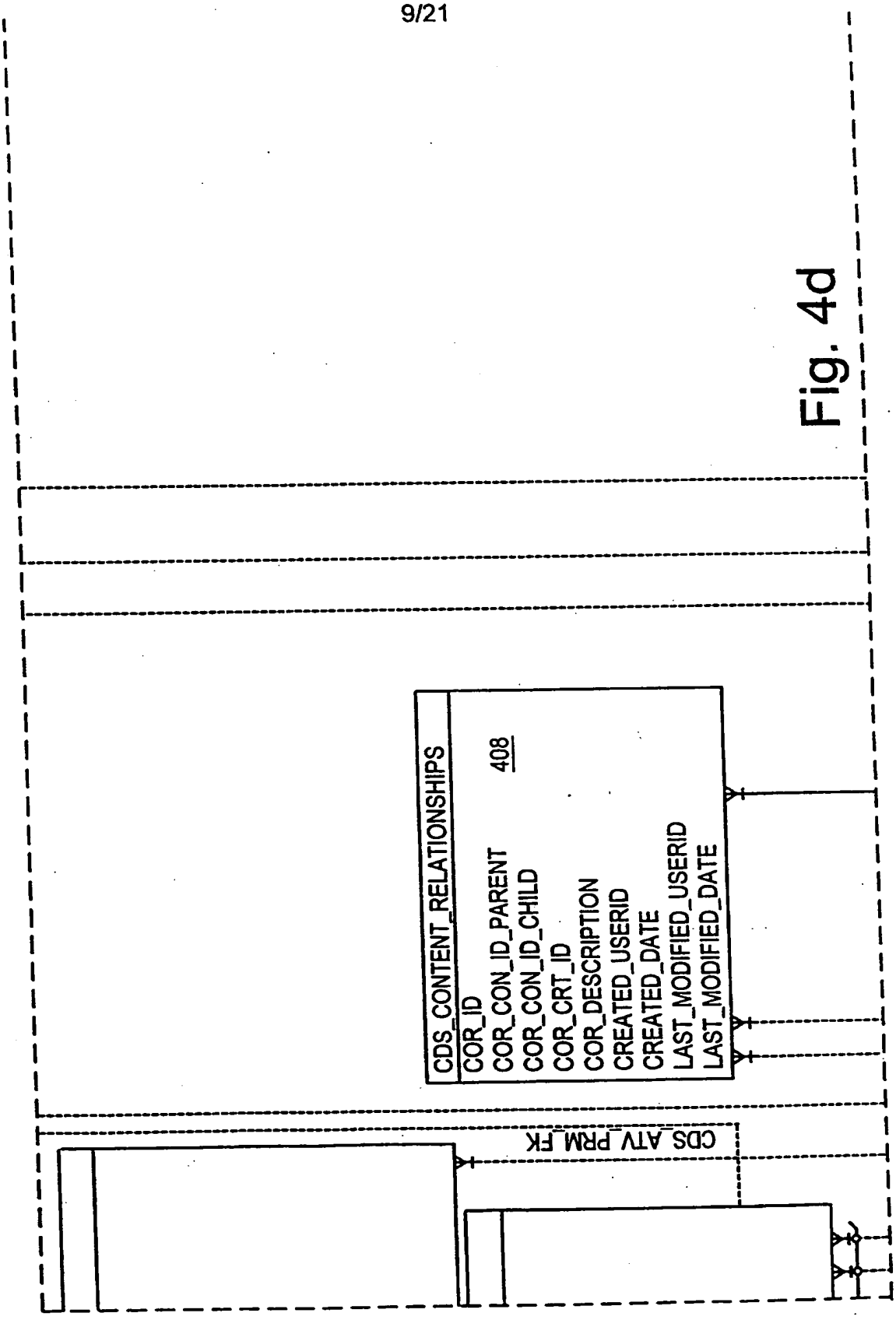

CDS_CONTENT_RELATIONSHIPS
COR_ID
COR_CON_ID_PARENT
COR_CON_ID_CHILD
COR_CRT_ID
COR_DESCRIPTION
CREATED_USERID
CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
408
CDS_ATV_PRM_FK

Fig. 4d

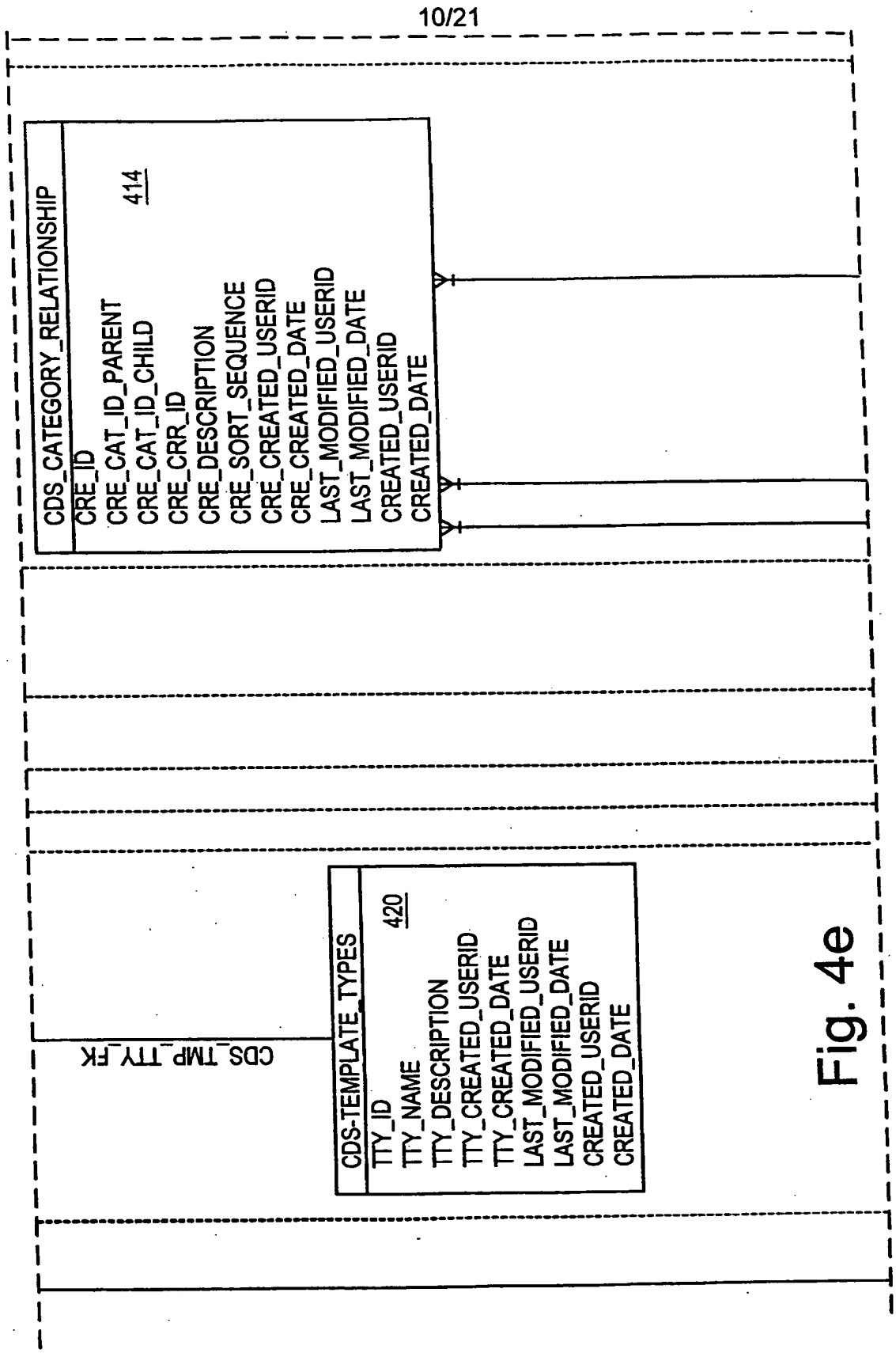

CDS_CATEGORY_RELATIONSHIP
CRE_ID
CRE_CAT_ID_PARENT
CRE_CAT_ID_CHILD
CRE_CRR_ID
CRE_DESCRIPTION
CRE_SORT_SEQUENCE
CRE_CREATED_USERID
CRE_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
414
CDS_TMP_TTY_FK
CDS-TEMPLATE_TYPES
TTY_ID
TTY_NAME
TTY_DESCRIPTION
TTY_CREATED_USERID
TTY_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
420

Fig. 4e

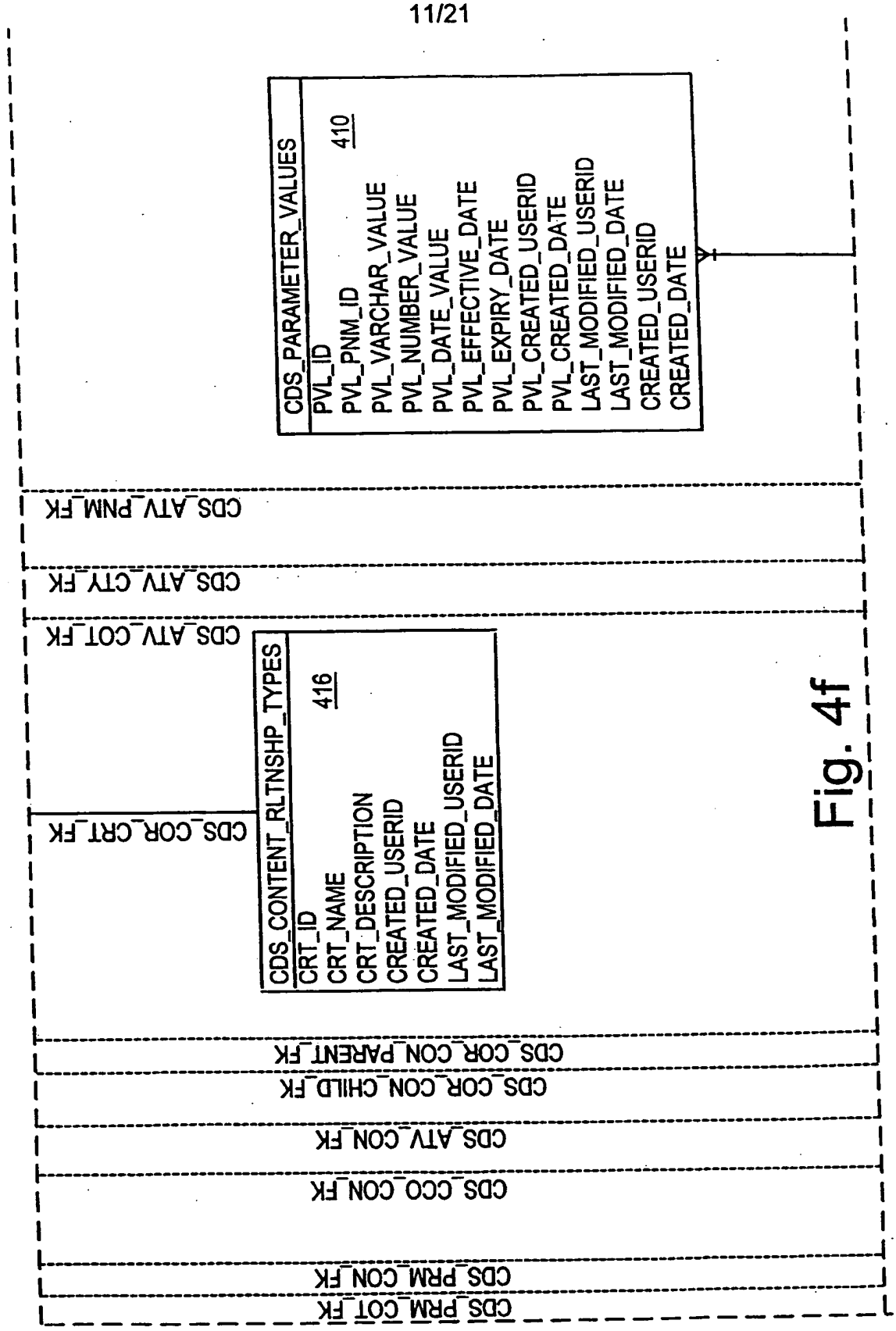

CDS_PARAMETER_VALUES
410
PVL_ID
PVL_PNM_ID
PVL_VARCHAR_VALUE
PVL_NUMBER_VALUE
PVL_DATE_VALUE
PVL_EFFECTIVE_DATE
PVL_EXPIRY_DATE
PVL_CREATED_USERID
PVL_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CDS_ATV_PNM_FK
CDS_ATV_CTY_FK
CDS_ATV_COT_FK
CDS_CONTENT_RLTNSHP_TYPES
416
CRT_ID
CRT_NAME
CRT_DESCRIPTION
CREATED_USERID
CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CDS_COR_CRT_FK
CDS_COR_CON_PARENT_FK
CDS_COR_CON_CHILD_FK
CDS_ATV_CON_FK
CDS_CCO_CON_FK
CDS_PRM_CON_FK
CDS_PRM_COT_FK

Fig. 4f

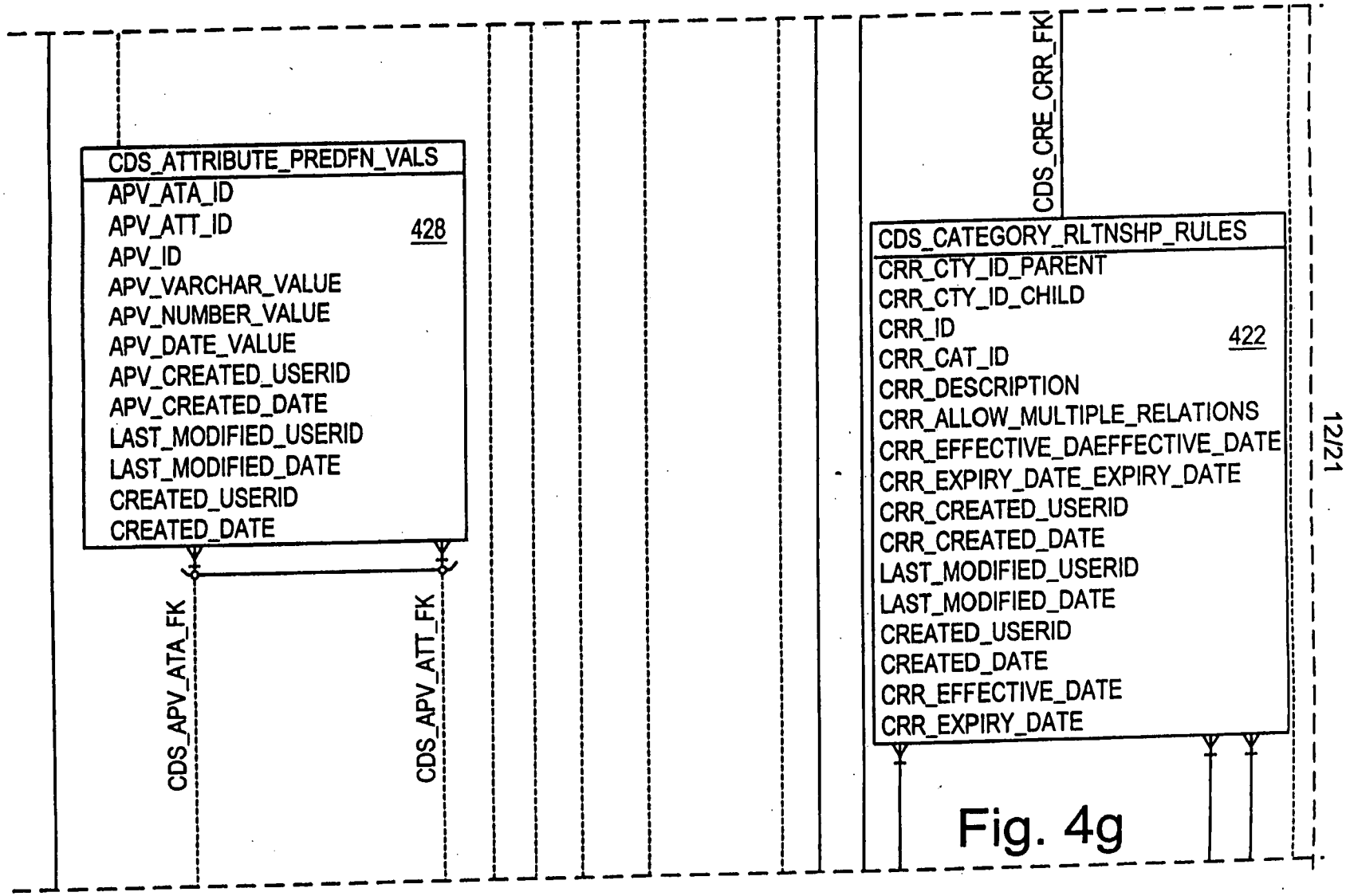

CDS_ATTRIBUTE_PREDFN_VALS
APV_ATA_ID
APV_ATT_ID
APV_ID
APV_VARCHAR_VALUE
APV_NUMBER_VALUE
APV_DATE_VALUE
APV_CREATED_USERID
APV_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
428
CDS_APV_ATA_FK
CDS_APV_ATT_FK
CDS_CRE_CRR_FK
CDS_CATEGORY_RLTNSHP_RULES
CRR_CTY_ID_PARENT
CRR_CTY_ID_CHILD
CRR_ID
CRR_CAT_ID
CRR_DESCRIPTION
CRR_ALLOW_MULTIPLE_RELATIONS
CRR_EFFECTIVE_DAEFFECTIVE_DATE
CRR_EXPIRY_DATE_EXPIRY_DATE
CRR_CREATED_USERID
CRR_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CRR_EFFECTIVE_DATE
CRR_EXPIRY_DATE
422

Fig. 4g

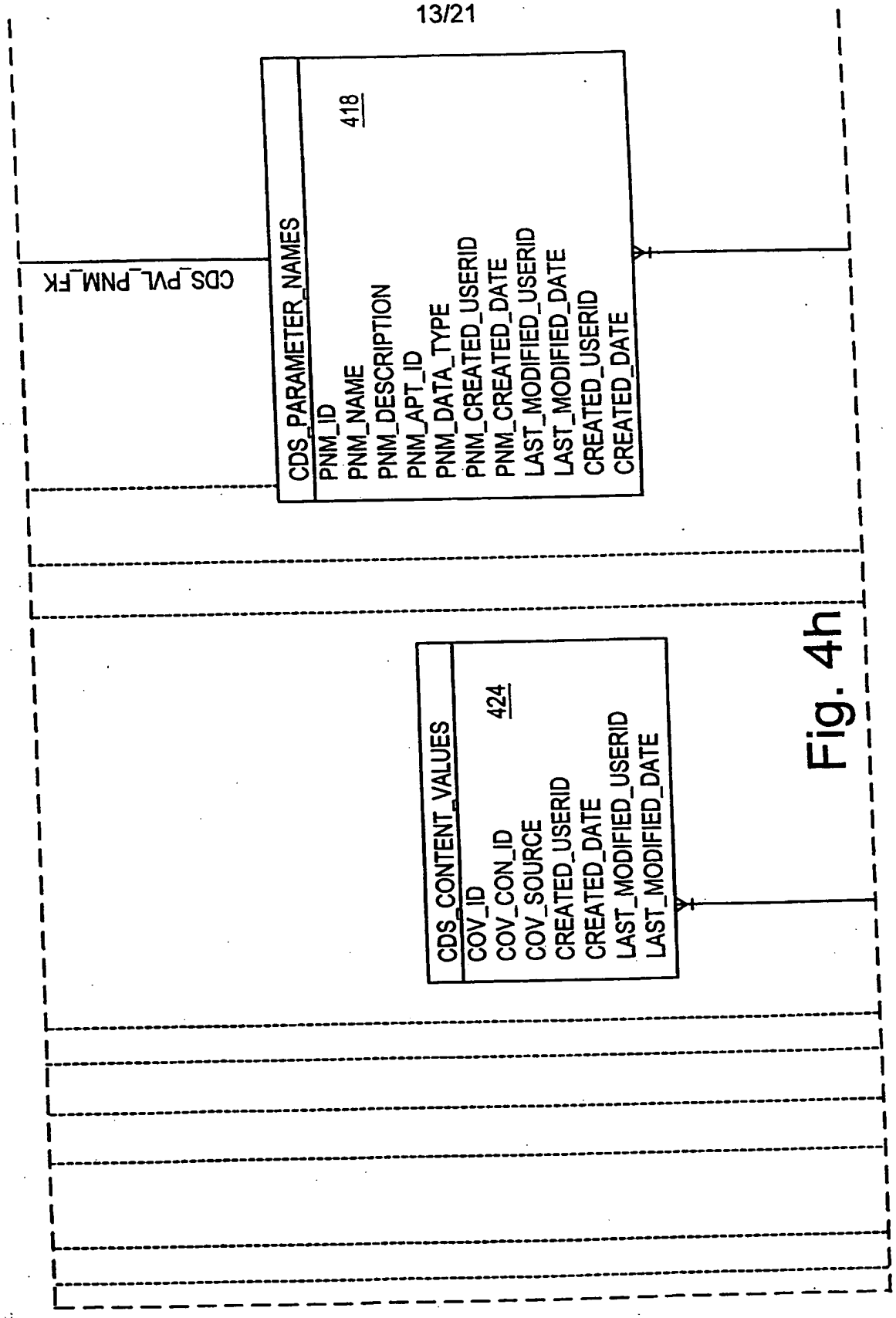

CDS_PVL_PNM_FK
CDS_PARAMETER_NAMES
418
PNM_ID
PNM_NAME
PNM_DESCRIPTION
PNM_APT_ID
PNM_DATA_TYPE
PNM_CREATED_USERID
PNM_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CDS_CONTENT_VALUES
424
COV_ID
COV_CON_ID
COV_SOURCE
CREATED_USERID
CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE

Fig. 4h

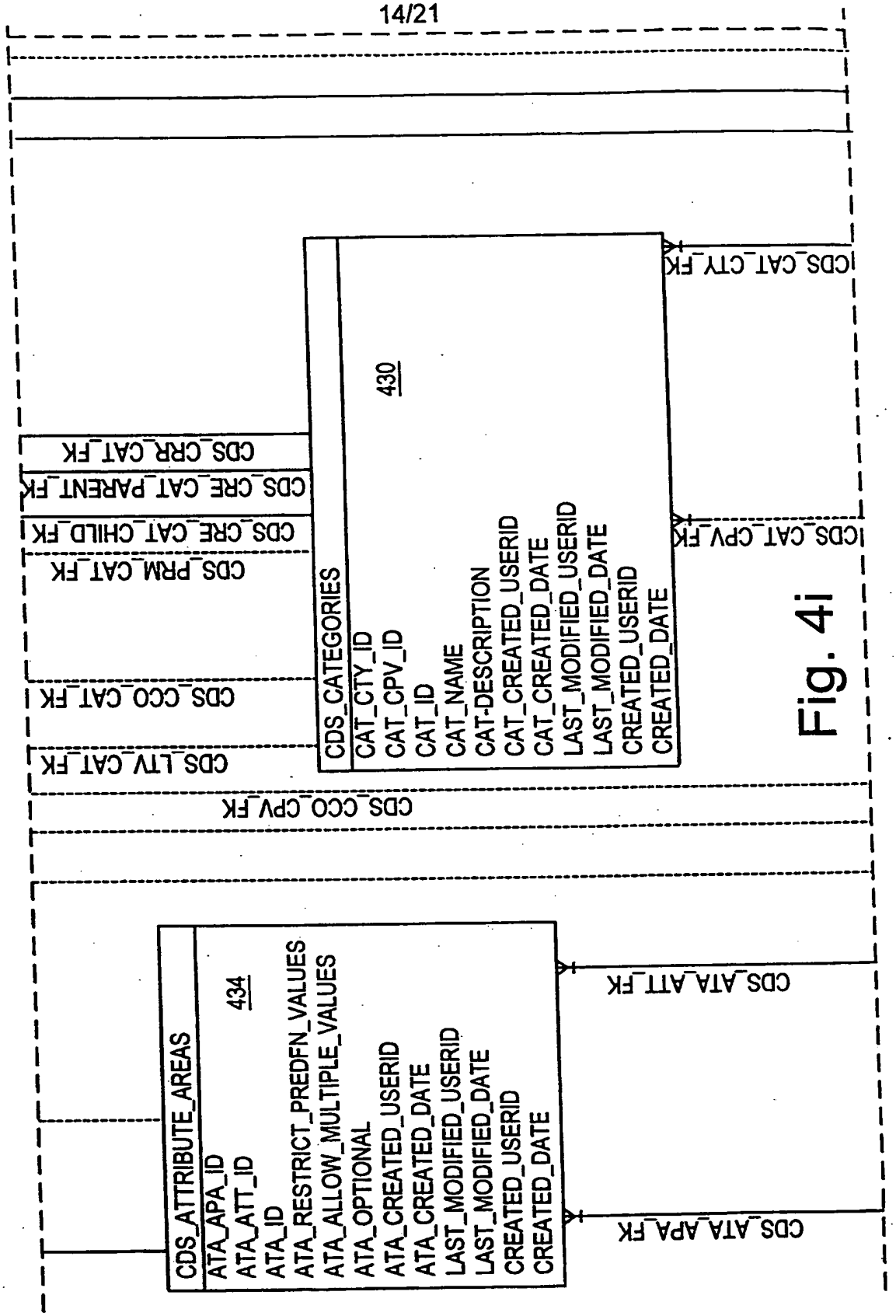

CDS_CAT_CTY_FK
CDS_CAT_CPV_FK
CDS_CRR_CAT_FK
CDS_CRE_CAT_PARENT_FK
CDS_CRE_CAT_CHILD_FK
CDS_PRM_CAT_FK
CDS_CCO_CAT_FK
CDS_LTV_CAT_FK
CDS_CCO_CPV_FK
430
CDS_CATEGORIES
CAT_CTY_ID
CAT_CPV_ID
CAT_ID
CAT_NAME
CAT-DESCRIPTION
CAT_CREATED_USERID
CAT_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CDS_ATA_ATT_FK
CDS_ATA_APA_FK
434
CDS_ATTRIBUTE_AREAS
ATA_APA_ID
ATA_ATT_ID
ATA_ID
ATA_RESTRICT_PREDFN_VALUES
ATA_ALLOW_MULTIPLE_VALUES
ATA_OPTIONAL
ATA_CREATED_USERID
ATA_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE

Fig. 4i

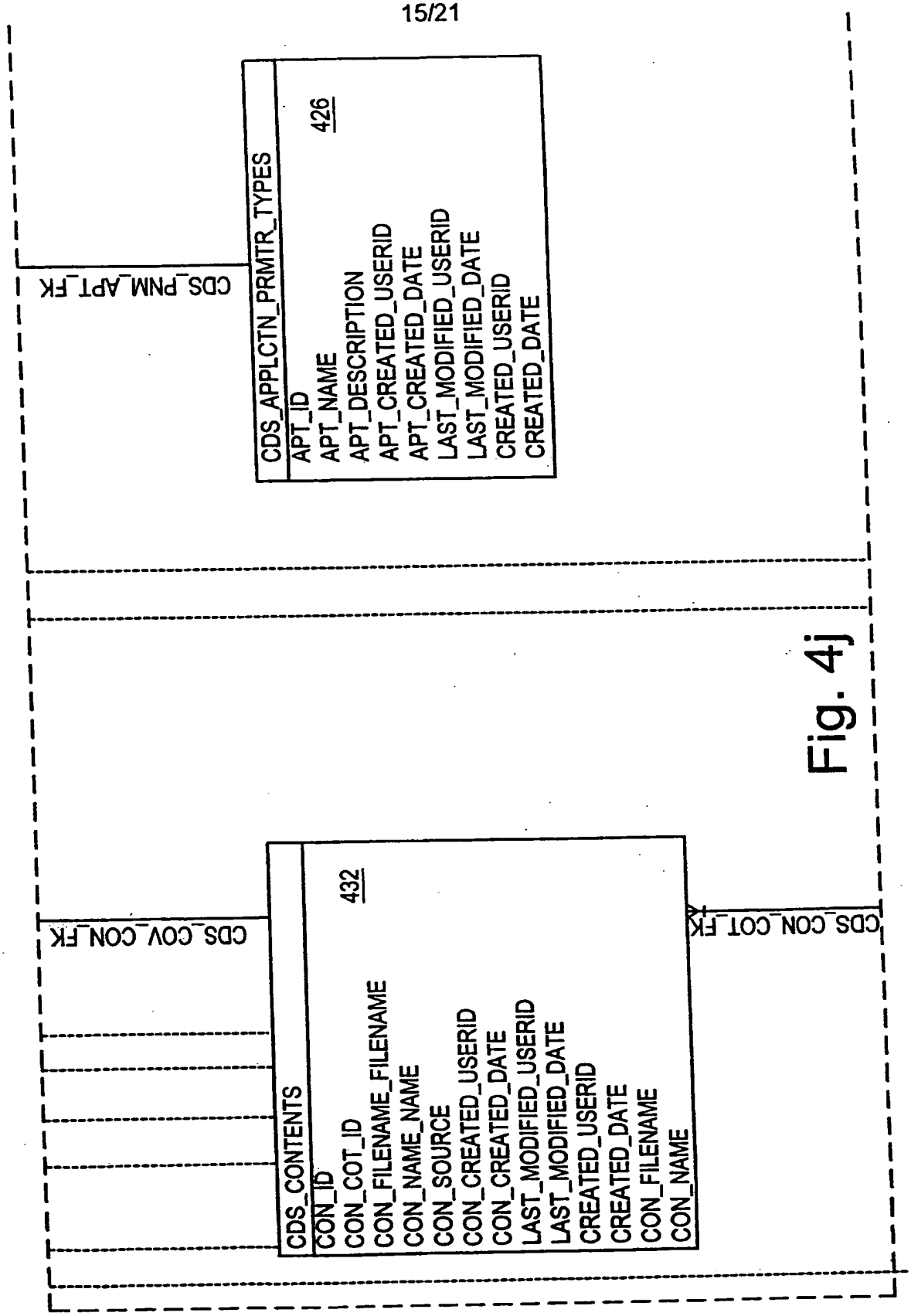

CDS_APPLCTN_PRMTR_TYPES
426
APT_ID
APT_NAME
APT_DESCRIPTION
APT_CREATED_USERID
APT_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CDS_PNM_APT_FK
CDS_COV_CON_FK
CDS_CONTENTS
432
CON_ID
CON_COT_ID
CON_FILENAME_FILENAME
CON_NAME_NAME
CON_SOURCE
CON_CREATED_USERID
CON_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CON_FILENAME
CON_NAME
CDS_CON_COT_FK

Fig. 4j

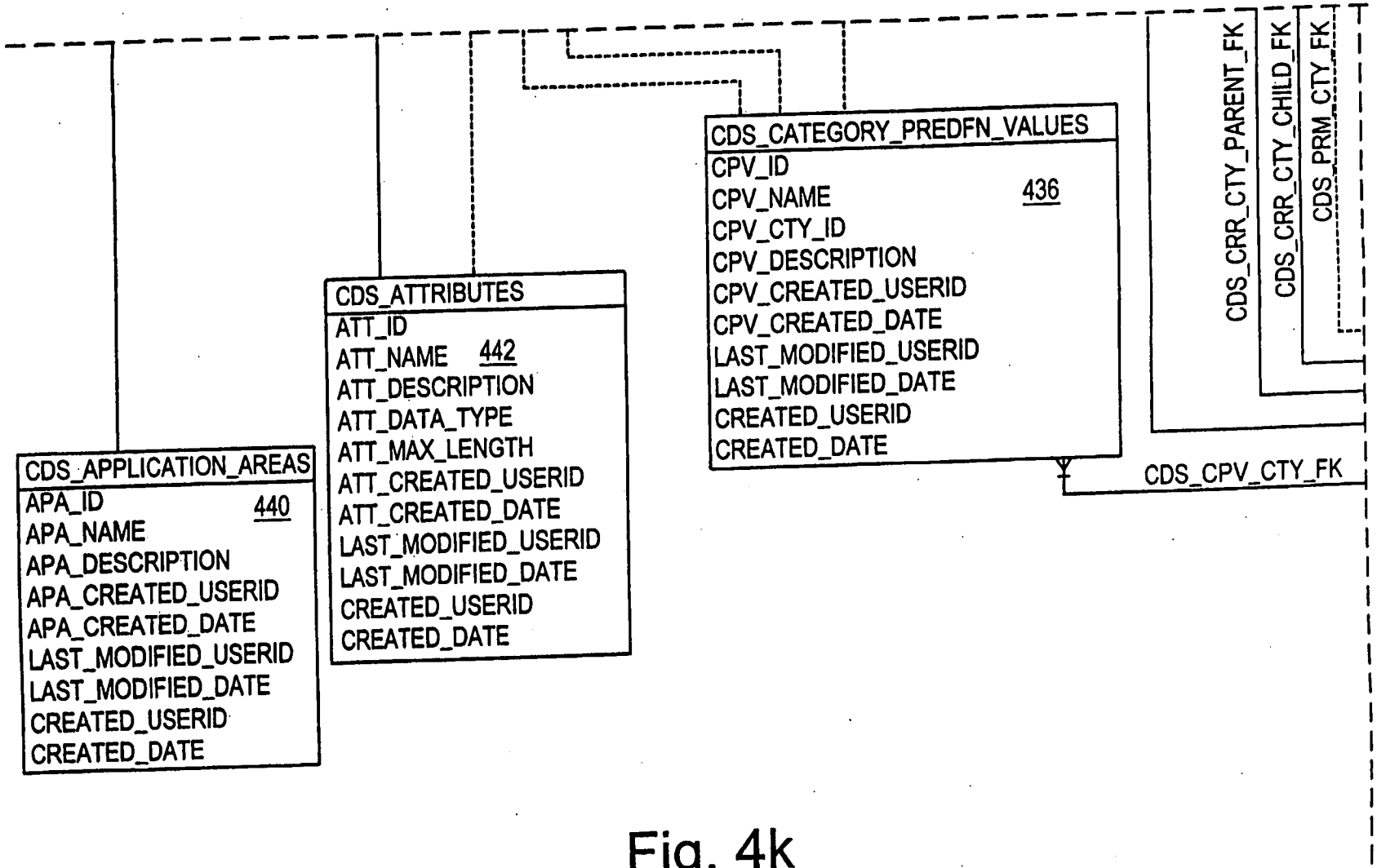

CDS_APPLICATION_AREAS
APA_ID
440
APA_NAME
APA_DESCRIPTION
APA_CREATED_USERID
APA_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CDS_ATTRIBUTES
ATT_ID
ATT_NAME
442
ATT_DESCRIPTION
ATT_DATA_TYPE
ATT_MAX_LENGTH
ATT_CREATED_USERID
ATT_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CDS_CATEGORY_PREDFN_VALUES
CPV_ID
CPV_NAME
436
CPV_CTY_ID
CPV_DESCRIPTION
CPV_CREATED_USERID
CPV_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
CDS_CRR_CTY_PARENT_FK
CDS_CRR_CTY_CHILD_FK
CDS_PRM_CTY_FK
CDS_CPV_CTY_FK
16/21

Fig. 4k

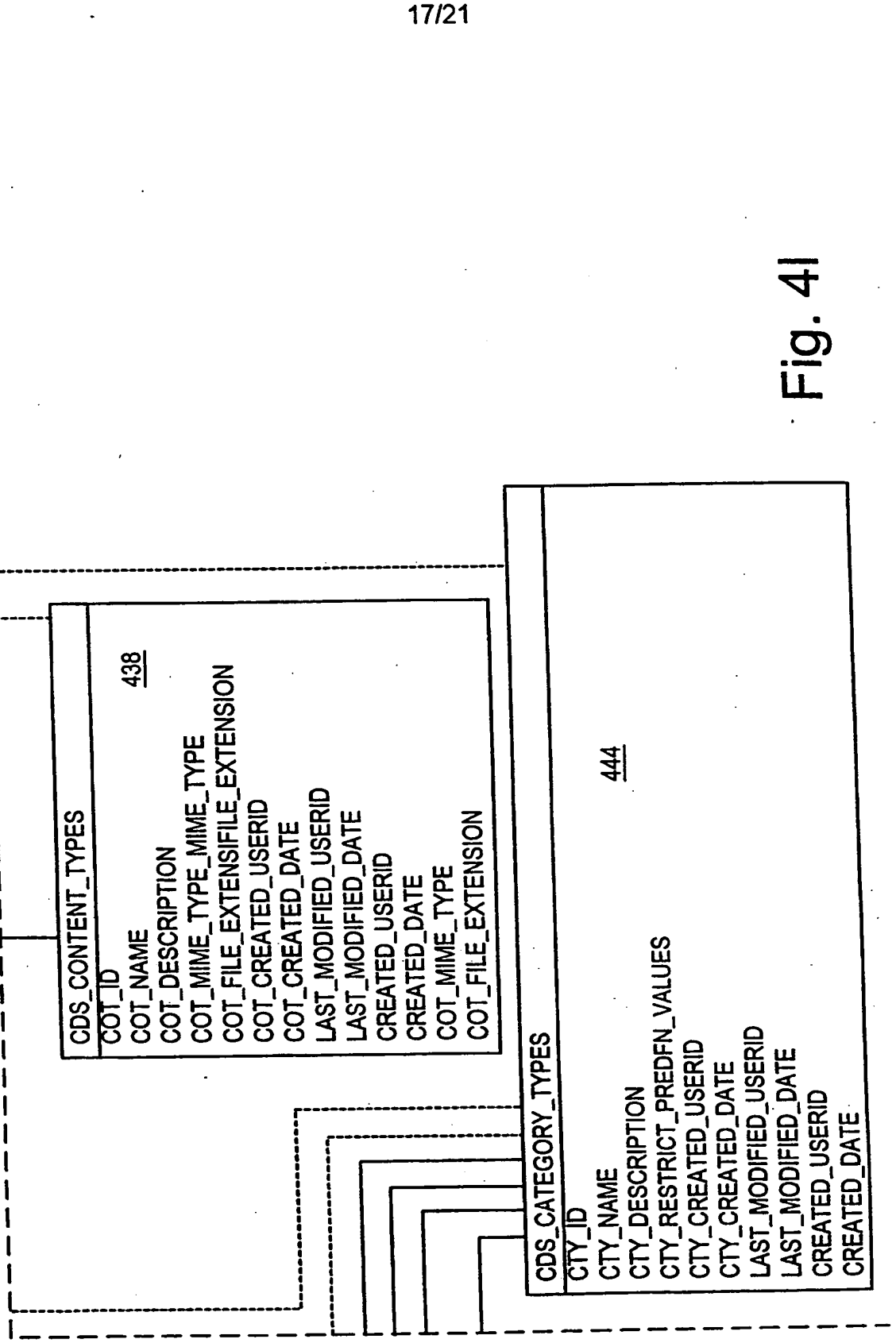

CDS_CONTENT_TYPES
COT_ID
COT_NAME
COT_DESCRIPTION
COT_MIME_TYPE_MIME_TYPE
COT_FILE_EXTENSIFILE_EXTENSION
COT_CREATED_USERID
COT_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
COT_MIME_TYPE
COT_FILE_EXTENSION
438
CDS_CATEGORY_TYPES
CTY_ID
CTY_NAME
CTY_DESCRIPTION
CTY_RESTRICT_PREDFN_VALUES
CTY_CREATED_USERID
CTY_CREATED_DATE
LAST_MODIFIED_USERID
LAST_MODIFIED_DATE
CREATED_USERID
CREATED_DATE
444

Fig. 4I

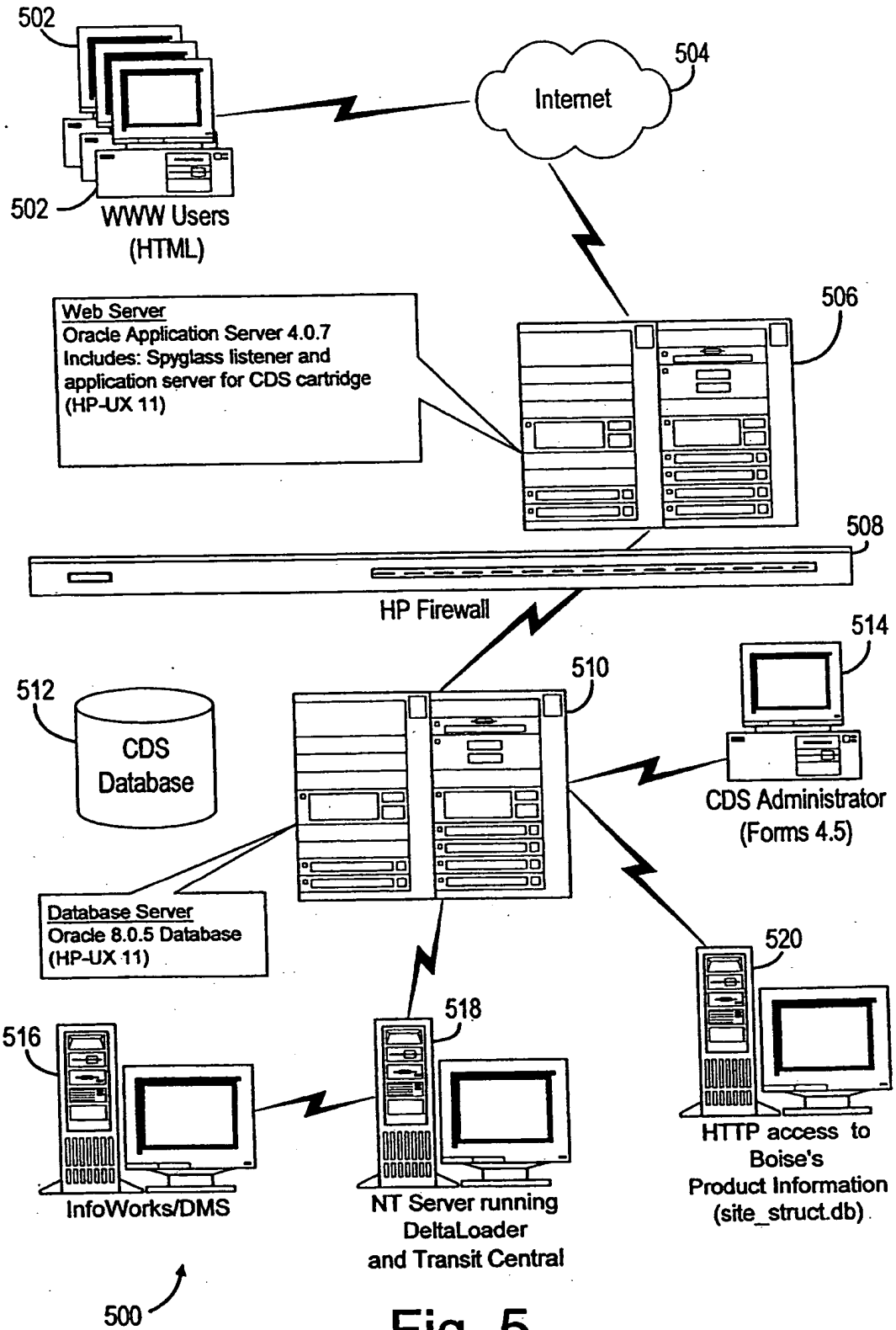

502
Internet
504
502
WWW Users
(HTML)
Web Server
Oracle Application Server 4.0.7
Includes: Spyglass listener and
application server for CDS cartridge
(HP-UX 11)
506
508
HP Firewall
514
512
510
CDS
Database
CDS Administrator
(Forms 4.5)
Database Server
Oracle 8.0.5 Database
(HP-UX 11)
520
516
518
HTTP access to
Boise's
Product Information
(site_struct.db)
InfoWorks/DMS
NT Server running
DeltaLoader
and Transit Central
500

Fig. 5

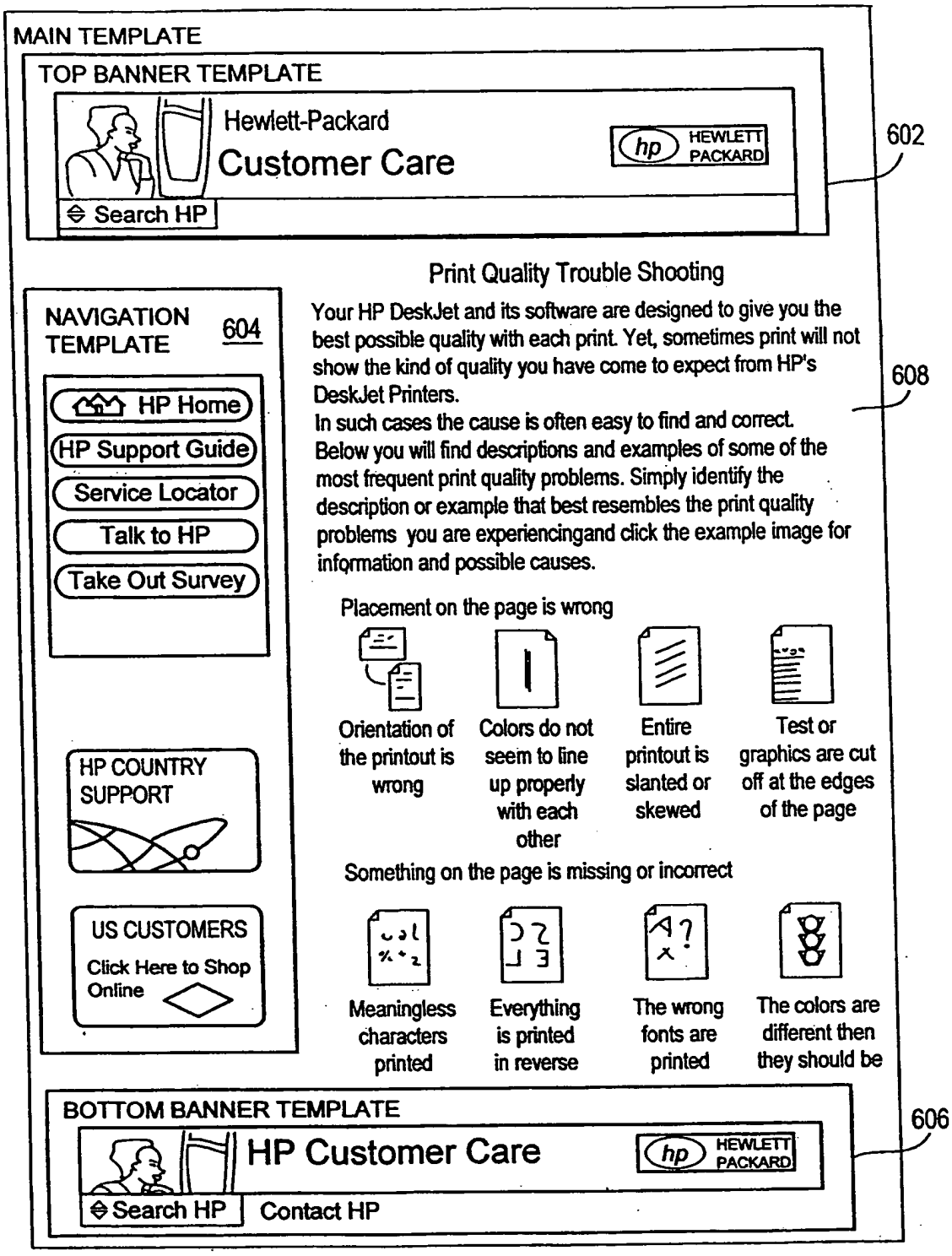

MAIN TEMPLATE
TOP BANNER TEMPLATE
Hewlett-Packard
Customer Care
HEWLETT PACKARD
Search HP
602
NAVIGATION TEMPLATE
604
HP Home
HP Support Guide
Service Locator
Talk to HP
Take Out Survey
HP COUNTRY SUPPORT
US CUSTOMERS
Click Here to Shop Online
Print Quality Trouble Shooting
Your HP DeskJet and its software are designed to give you the best possible quality with each print. Yet, sometimes print will not show the kind of quality you have come to expect from HP's DeskJet Printers.
608
In such cases the cause is often easy to find and correct. Below you will find descriptions and examples of some of the most frequent print quality problems. Simply identify the description or example that best resembles the print quality problems you are experiencingand click the example image for information and possible causes.
Placement on the page is wrong
Orientation of the printout is wrong
Colors do not seem to line up properly with each other
Entire printout is slanted or skewed
Test or graphics are cut off at the edges of the page
Something on the page is missing or incorrect
Meaningless characters printed
Everything is printed in reverse
The wrong fonts are printed
The colors are different then they should be
BOTTOM BANNER TEMPLATE
HP Customer Care
HEWLETT PACKARD
606
Search HP
Contact HP

Fig. 6

600

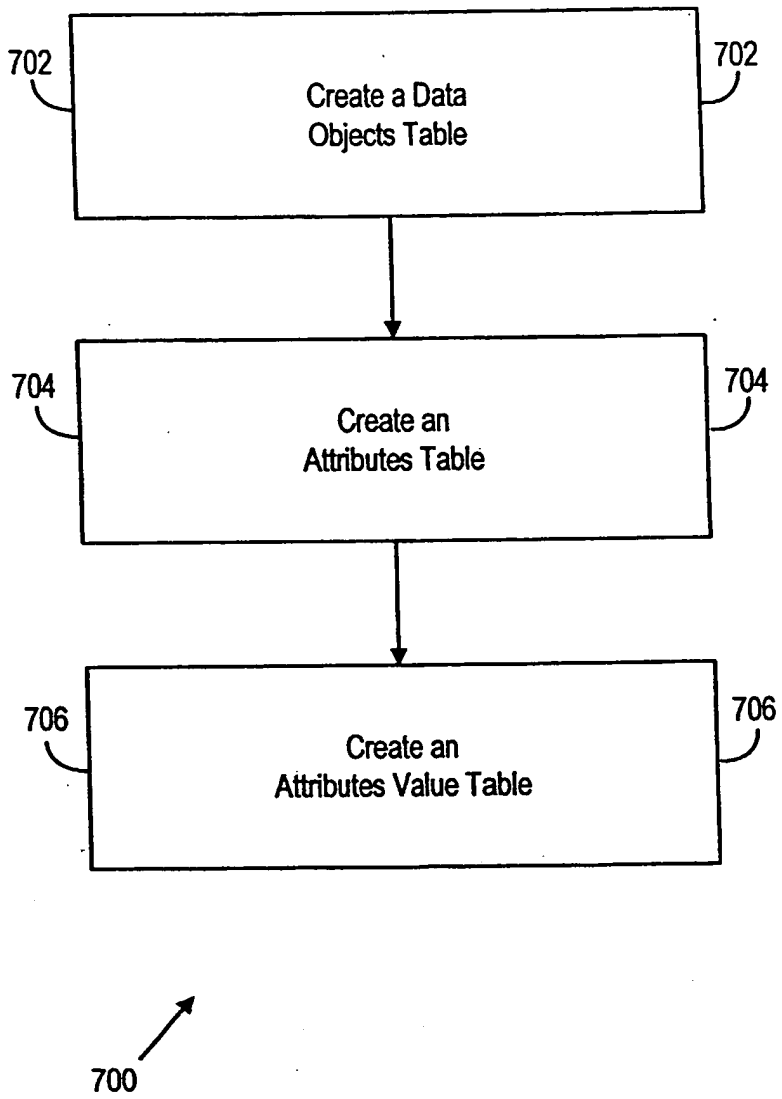

702
Create a Data Objects Table
702
704
Create an Attributes Table
704
706
Create an Attributes Value Table
706
700

Fig. 7

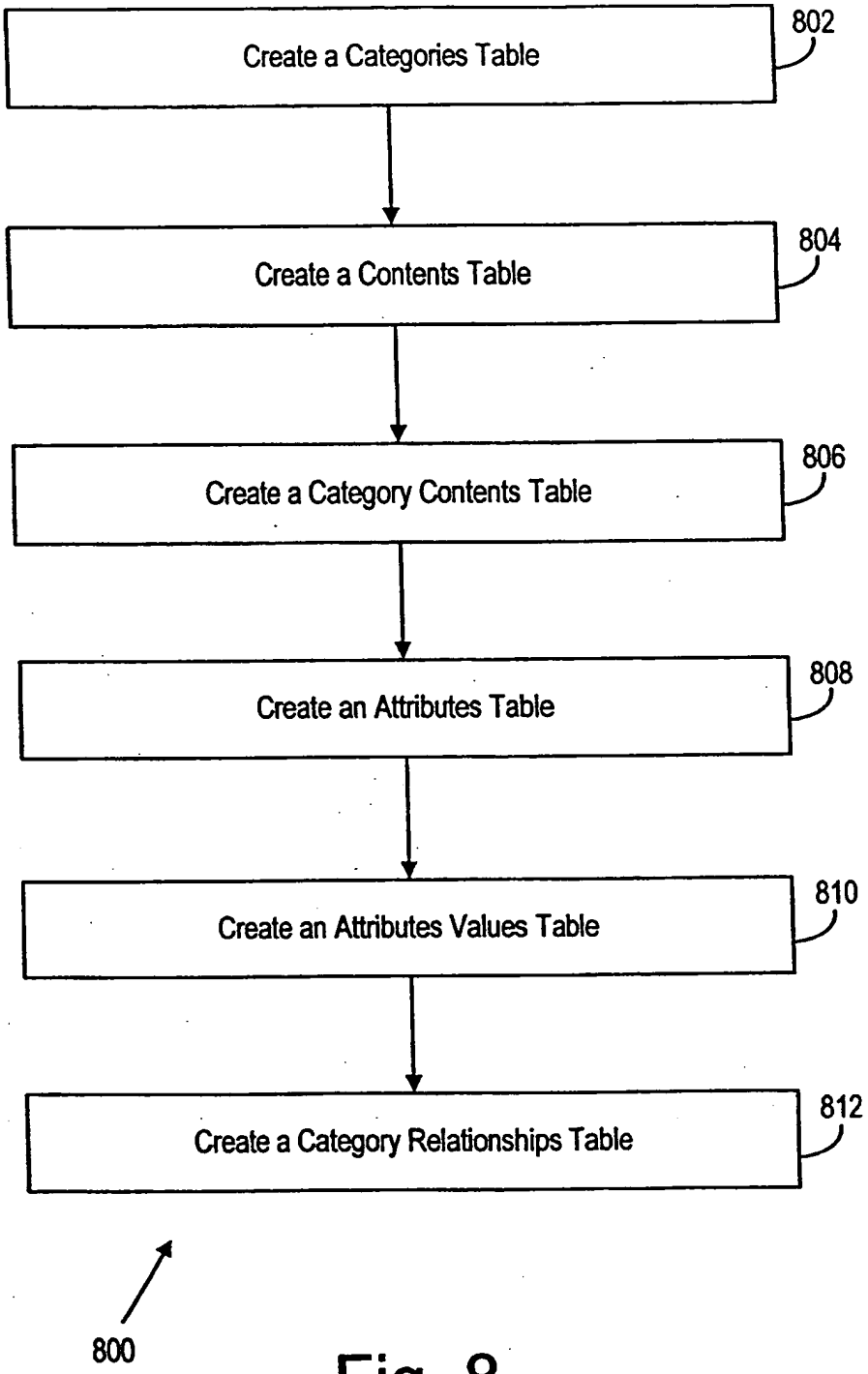

Create a Categories Table
802
Create a Contents Table
804
Create a Category Contents Table
806
Create an Attributes Table
808
Create an Attributes Values Table
810
Create a Category Relationships Table
812
800

Fig. 8